Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_

Mitosis and Meiosis Comparison

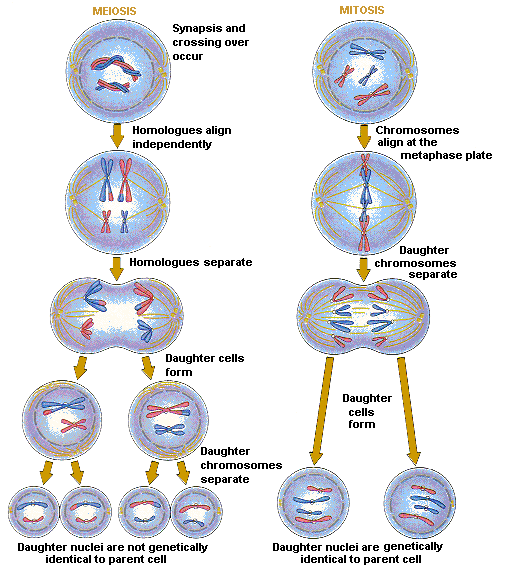
Complete the “story” chart comparing mitosis and meiosis. Some words or phrases will be used more than once:

**Asexual Diploid cell One cell division Four haploid cells Original cell Half**

**Two cell divisions Body cell Chromosomes Two diploid cells Same Sexual**

|  |  |
| --- | --- |
| MITOSIS | MEIOSIS |
| *is a form of.…*  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_reproduction | *is necessary for.…*  *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_reproduction* |
| *occurs in a…*  body cell | *occurs in a…*  **gamete-producing cell** |
| *which is a…*  diploid cell | *which is a…*  diploid cell |
| *that undergoes…*  one cell division | *that undergoes…*  two cell divisions |
| *forming…*  two diploid cells | *forming…*  four haploid cells |
| *having the…*  same | *having…*  half |
| *number of…..*  chromosomes | *the number of…..*  chromosomes |
| *as the…*  **original cell** | *as the…*  original cell |

**Label the diagrams:**



**Descriptions – may be used more than once**:

Sister chromatids separate Homologous chromosomes line up in pairs

Chromosomes line up separately Daughter cells notgenetically identical to each other or the parent cell

Homologous chromosomes separate Daughter cells are genetically identical to each other & the parent cell

Crossing over between homologous chromosomes